

Method of transmitting data on multiple carriers from a transmitter to a receiver and receiver designed to implement the said method.

The present invention concerns a method of transmitting data on multiple carriers from a transmitter to a receiver, the said method consisting, on the transmitter side, of binary to signal coding of the data to be transmitted so as to form modulation signals, of modulating a plurality of sub-carriers with the said modulation signals so as to form symbols, referred to as OFDM symbols, and then of transmitting, over the said channel between the said transmitter and the said receiver, the said OFDM symbols at a rate which is related to a sampling frequency referred to as the transmitter sampling frequency, and, on the receiver side, of determining, from a clock signal at a frequency related to a sampling frequency referred to as the receiver sampling frequency, an analysis window for the signal received from the transmitter so as to form a block of samples, and of estimating the said transmitted modulation signals by demodulating the said sub-carriers for the said block of samples under consideration.

The said estimation step is designed to correct the changes in the position of the analysis window with respect to the said transmitted signal.

Figure 3